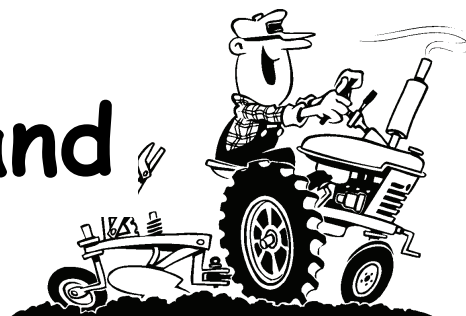


Cultivating Cumberland

February-2011 VOL. 16, ISSUE 2



Inside this issue:

Harmonization of Third
Party Audits 1-2

Compost, Rhizobacteria &
Row Covers 3-4

Trends in Fresh Market
US Tomato Marketing 5

Calendar of Important
Events 6-12

Regularly Scheduled
Meetings 13

Attachments:

Plant & Pest Advisory Order Blank

2011 NJ State Ag Convention

"Annie's Project" Brochure

Rain Barrel Workshops

Pepper & Tomato Hot Water Seed
Treatment Workshop

S. Jersey Comm. Greenhouse Grow-
ers Workshop

Harmonization of Third Party Audits

Growers who are required to have more than one audit because of who purchases their produce are tired of spending the extra money. The United Fresh Produce Association hosted a meeting in 2009 to discuss the possibility of harmonizing the different audits.

The conclusions from the meeting included the following:

1. Studies carried out by United Fresh and the Canadian Horticultural Society has shown that at least 90% of audits have similar questions.
2. Commodity groups are working on specific food safety standards and audits (leafy greens, tomatoes, watermelon, green onions, etc.).
3. Inclusion of non-food safety standards (environmental and social issues) is a likely obstacle to harmonization. These issues need to be addressed separately (sustainability audits).
4. Harmonization of general GAP standards/audits must be transparent with open communication of intent, progress and conclusions.
5. Everyone must be at the table as the process progresses (retailers, foodservice companies, fresh-cut processors, grower-shippers and government).
6. Auditors and auditing standard owners need to be at the table, but not at the expense of the goal to achieve harmonization.

A group was formed in June 2009 to try to develop harmonized food safety standards for field and post harvest operations. This group made up of growers, wholesalers, retail buyers, third party audit firms and the federal government has met monthly to develop the standards. Standards considered in this harmonization:

1. AFDO Model Code for Produce Safety
2. AIB International
3. Food Safety Programs and Auditing Protocol for the Fresh Tomato Supply Chain
4. California Leafy Green Handlers Marketing Agreement
5. California Strawberry Commission Food Safety Plan
6. CanadaGAP Combined Vegetables On-Farm Safety Manual

7. Community Alliance with Family Farmers
8. GlobalGAP Fruit and Vegetables
9. SENASICA Silliker GAP Audit
10. SQF 1000
11. USDA GAP Audit
12. USDA Mushroom Production Audit

These are not all the audits, but a major cross section of what is available in the United States. The committee has issued draft standards and can be reviewed at <http://www.unitedfresh.org>. Anyone can review the standards and make comments to the committee.

Much that is in the USDA audit (USDA Good Agricultural Practices & Good Handling Practices Audit Verification Checklist) is included in the proposed standards. There are some additions proposed to be included in a food safety plan.

1. Disciplinary policy for food safety violations – A grower would need to discuss how an employee would be disciplined if a food safety violation were observed.
2. Identify all locations, address potential physical, chemical, biological hazards, and control procedures – This is not in the present USDA audit and would mean additional record keeping.
3. If microbiological testing is required, procedures need to be written in the plan – Testing is not required by the standards, but if the company purchasing the product requires it, then the procedures would need to be included. There are growers in New Jersey who are required to do testing by the company purchasing their products.
4. A traceback system where the grower or distributor can locate the product in 4 hours – Traceback is already part of the USDA Audit, but there is no requirement as to the speed of locating the product.
5. Describe how corrective actions are taken – If the operation loses points in an audit a procedure would need to be developed on how it would be corrected.
6. Documented self-audit – Performing a self-audit should be done before any third-party audit. That is the only way to see what changes are required.
7. Use single-use cups – This should be standard procedure in the field or packinghouse.
8. Describe how water samples are taken – This should not be a major issue since an operation cannot pull their own samples. The testing company would need to give the operation a copy of their procedures.
9. Describe how product is packed in the field – Is the box put directly on the ground, is there a plastic sheet under it, on another box, etc.
10. Material not stored against walls or ceilings – For inspection purposes pallets; bins, boxes, etc. should be at least 18 inches from walls.
11. All buildings where equipment and packaging material is stored should have a pest control program – At present many operations have a program just for the packinghouse.

These are some of the differences I see between the USDA audit and the proposed harmonized standard. These standards are not part of the Food Modernization Act passed by Congress, but an attempt by the industry to help streamline the audit process and reduce the need for multiple audits. Retailers still need to buy into this process and accept audits that follow these standards.

Under the Food Modernization Act, the Food and Drug Administration (FDA) has one year to publish “minimum science-based standards” for fresh fruits and vegetables. Much of what has been included in the harmonization process probably will be included in the FDA standards. There will be opportunities to comment on the standards and other rules coming out of FDA over the next 1-2 years. When the opportunity presents itself, take it!

Compost, Rhizobacteria and Row Covers: A Way to Manage Nutrients and Pests in Organic Cucurbit Production

Ermita Hernandez and Elsa Sánchez, Penn State Horticulture

Organic cucurbit growers face two main challenges, managing important pests and using organic nutrient sources. Cucurbits such as cucumber, melons, squash, pumpkins, etc., are known to have two severe pest problems in the eastern region of the U.S. The striped cucumber beetle (*Acalymma vittatum*), which transmits the bacterium *Erwinia tracheiphila* causing bacterial wilt disease and the squash bug (*Anasa tristis*), which transmits *Serratia marcescens* the causal agent of cucurbit yellow vine disease (CYVD). On the other hand, organic nutrients sources such as compost, manure or plant residues, release nitrogen slowly as organic nitrogen is converted to inorganic nitrogen through the process of mineralization.

During 2006 a group of researchers from Iowa State University (ISU) started investigating the effect of row covers on bacterial wilt disease and yield in muskmelons. This group took an innovative approach to using row covers to exclude insects by extending the row-covered period after plant flowering. Their preliminary findings suggested that extending the row-covered period beyond the start of bloom could improve protection against bacterial wilt without sacrificing yield or earliness. However, the method of using row covers only protected plants for a period of time since they must be removed because this crop needs to be pollinated by bees.

That led our Penn State group to conduct a two year experiment at the Russell E. Larson Agricultural Research Center near Rock Springs, PA to evaluate the effect of using various plant inducers as seed treatments, including PGPR 'Plant growth promoting rhizobacteria', that can activate natural plant defense mechanisms, then growing cucumber transplants under row covers. Our findings in this experiment were that PGPR significantly reduced bacterial wilt severity and delayed incidence until the end of the season. With all these findings both teams at PSU and ISU along with researchers from the University of Kentucky proposed to develop practical management strategies for pests and nutrients that can be adopted immediately by organic cucurbit growers throughout the eastern half of the U.S.

During summer 2009 the first study was established at the Russell E. Larson Agricultural Research Center in PA. We investigated the use of row covers on a muskmelon crop by removing them at flowering or removing them 10 days after flowering started. We assessed cucumber beetle dynamics and populations and bacterial wilt severity during the growing season in a muskmelon crop. Our preliminary data showed that striped cucumber beetles and therefore bacterial wilt were significantly suppressed, by 31%, with the use of row covers removed at flowering and by 44% by removing row covers 10 days after the start of flowering compared to not using row covers (control) (Fig 1).

During this same trial we evaluated the use of dairy and food scrap based compost assuming a 10% or 30% mineralization rate and organic bagged fertilizer (control). Transplants were produced with or without PGPR (*Bacillus subtilis*) as a seed treatment. We found various responses of the different combinations of PGPR and compost treatments for each row cover treatment. However, it is interesting to note that a low application of compost (assuming a 30% mineralization) with the use of PGPR showed the most promise for maintaining low bacterial wilt pressure in muskmelon. We had learned from previous research that various compost types can benefit disease management by increasing activity and diversity of soil microflora. However, it is difficult to know what makes the plant resistant to the disease.

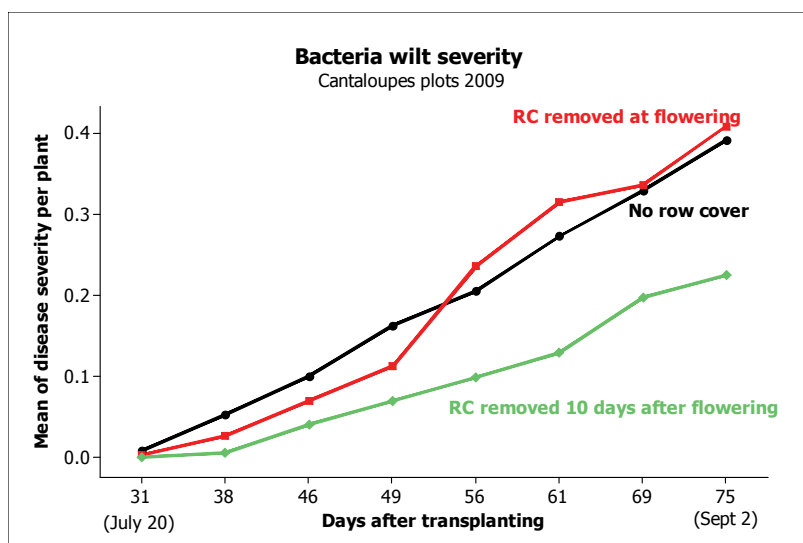
We also evaluated the use of row covers, different rates of compost and the use of PGPR on butternut squash. In this trial we added another treatment which consisted of using row covers during the entire season integrated with a bumble bee hive. Preliminary results showed differences in yield response than in the muskmelon trial. It was interesting to see that yield was increased by 10% when row covers were removed at flowering compared to not using row covers. However, removing row covers 10 days after flowering or leaving them on all season reduced yield by 34% or 42%, respectively. This disparity between muskmelon and butternut squash may be due to various factors. Squash bug is one of the main concerns for winter squash, however, during this trial year populations of this pest were very low. Therefore, plants were not under stress due to this pest. Perhaps high temperatures after flowering triggered plant hormones increasing vegetative growth and reducing flower development. We will need to evaluate these responses under greenhouse settings to further understand what may be occurring.

Our next question addressed was: What effect do row covers combined with dairy and food scrap based compost and PGPR have on yield? As expected increased yield was observed by the use of row covers removed at flowering (18%) and row covers removed 10 days after flowering (37%) compared to not using row covers (control). Surprisingly, no significant increase was observed in yield among each combination of compost and PGPR integrated with the use of row covers. This is good news for growers since lower rates of compost had a similar effect to higher rates on plant yield.

Is the option of using row covers, PGPR and compost economically justified for organic growers? This next year we will repeat this study which will help us answer the question of economics.

Do soil properties or environmental factors under row covers have any impact on plant nutrient uptake or PGPR stability? We assessed pre and post harvest soil samples for their chemical properties and monitored soil and air temperature to answer this question, however, these results are still being analyzed.

Figure 1. Bacterial wilt disease severity during the 2009 growing season in muskmelon. Lower severity of the disease was observed in row covered treatments removed 10 days after flowering.



Trends in fresh market U.S. tomato marketing

Jack Rabin

Tomato Type	Three seasons through 2010			3-Year Market Trend Percent
	Sales in U.S. \$ millions			
	2008	2009	2010	
Grape	466	498	527	+13%
Beefsteak	432	382	410	-5%
Plum/Roma	382	351	408	+16%
Vine Ripe	280	254	250	-11%

Where is merchandising of fresh market tomatoes going in the U.S.? Where are consumer preferences? It's clear who the tomato category leaders and laggards are. Field grown vine ripe and beefsteak tomatoes, the Eastern U.S. farmers' traditional production, the ideal of what some might think consumers want, clearly continue to lose market share. I have some tomato market share data back to 1999, and it looks similar.

These four top selling tomato types in the table represent 60% of the entire U.S. grocery tomato category sales of \$2.6 billion reported from retailers. A big chunk of the remainder is greenhouse tomatoes-on-the-vine, not field grown tomatoes.

By some accounts, the total fresh tomato market has expanded to approximately \$5 billion. The \$1.6 billion reported from four tomato types above are actual grocery retailer UPC scans. It does not include food service, hospitality, and institutional sales. It also does not include the direct market farmer-to-consumer sales. \$2.6 billion is what people are actually plucking off retail store shelves, and the \$1.6 billion above is from the big four, that's why this data helps inform us. This data is from IRI/Symphony UPC scanner reporting.

Calendar of Important Events

✚ Indicates the newly added event since last calendar

February 2011

February 1

Managing Insect Pests of Ornamental Landscape Plants, NJAES Cont. Ed., 102 Ryders Lane, New Brunswick, NJ; 9-3:30; \$195 by 1/18; \$225 after. Pesticide Credits: 10 Cat. 2, 3A, 6B, 8C & PP2. For info call 732-932-9271 or email: ocpe@njaes.rutgers.edu

February 1-3

Mid-Atlantic Fruit & Veg. Conv., Hershey Lodge and Conv. Ctr, Hershey, Pa. For info visit: www.mafvc.org

February 1-3

National Council of Agricultural Employers 47th Annual Meeting, Hotel Monaco, Washington DC. For info call 202-728-0300 or email: Matt@NCAEOnline.org

February 1-3

Iowa Power Farming Show, Des Moines. For info, visit: www.iowapowershow.com

February 2

Pesticide Calibration, NJAES Cont. Ed., 102 Ryders Lane, New Brunswick, NJ; 9:00-1:00; \$195 by 1/19; \$225 after. For info call 732-932-9271 or email: ocpe@njaes.rutgers.edu

February 2

Soils and Fertilizers, RCE Gloucester County, 1200 N. Delsea Dr., Clayton, NJ, 8:45 am-12 noon; \$20. For info call Mary Cummings 856-307-6450 x1

February 2-3

Buffalo Bill Farm & Ranch Expo., North Platte, NE. For info visit: www.nparea.com

February 3

Pest Mgmt. of Landscape Turf, NJAES Cont. Ed., 102 Ryders Lane, New Brunswick, NJ, 9-3:30; \$195 by 1/20; \$225 after. Credits: 11-3B & PP2. For info call 732-932-9271 or email: ocpe@njaes.rutgers.edu

February 4-5

New Hampshire Farm & Forest Expo, Radisson/Center of New Hampshire, Manchester. For info visit: www.nhfarmandforestexpo.org

February 4-10

North American Farmers' Direct Marketing Association's 26th Annual Convention, Baltimore, Md. For info visit: www.nafdma.com or call 888-884-9270

February 7

Concrete Pavers, NJAES Cont. Ed., 102 Ryders Lane, New Brunswick, NJ; 9:00-4:00; \$245 by 1/24; \$275 after. For info call 732-932-9271 or email: ocpe@njaes.rutgers.edu

February 7

Pepper & Tomato Hot Water Seed Treatment and Veg. Crops Update Workshops, RCE of Cumberland County, 9-12:15, \$25.00. Pre-registration required. For info call 856-307-6450 x1.

February 8-9

Beds & Borders Seminar, NJAES Cont. Ed., 102 Ryders Lane, New Brunswick, NJ; 9:00-3:30; \$345 by 1/25; \$395 after. For info call 732-932-9271 or email: ocpe@njaes.rutgers.edu

February 8-9

New Jersey State Agricultural Convention, Crown Plaza Hotel, Cherry Hill, NJ. For info contact Linda Walker at NJDA at 609-633-7794.

February 8-10

World Ag Expo, Tulare, California. For more info visit: www.worldagexpo.com.

February 8-11

30th North American Strawberry Symposium, Doubletree Hotel, Tampa, Fla. For info contact Kevin Schooley, by email: info@nasga.org or visit: www.nasga.org

February 8-11

Canadian International Farm Show, Toronto, Ont. For info visit: www.canadianfarmshow.ca

February 9

Basic Entomology, RCE Gloucester County, 1200 N. Delsea Dr., Clayton, NJ; 8:45 am-12 noon; \$20. Pesticide credits: 3-7A and 7B. For info call Mary Cummings 856-307-6450 x1.

February 10

Small Fruits, RCE Burlington County, 2 Academy Dr., Westampton, NJ; 9 am-12 noon; \$20. Pesticide credits: 3-3A and PP2. For info call 609-265-5050.

February 10

Cash Flow Management for the Landscape Contractor, NJAES Cont. Ed., 102 Ryders Lane, New Brunswick, NJ, 9-3:30; \$195 by 1/27; \$225 after. For info call 732-932-9271 or email: ocpe@njaes.rutgers.edu

February 11

Pepper and Tomato Hot Water Seed Treatment & Veg. Crops Update Workshop, RCE of Gloucester County, 9-12:15. \$25.00 Pre-registration by 2/4 required. For info call 856-307-6450 x1.

February 13-15

Pesticide & Ag Plastics Stewardship 11th Annual Conf., San Antonio, Texas. For info visit: <http://tpsalliance.org>

February 14

Managing Turfgrass Insects, NJAES Cont. Ed., 102 Ryders Lane, New Brunswick, 9-3:30; \$195 by 1/31; \$225 after. Credits: 10 Cat. 3B, 6B, 8C & PP2. For info call 732-932-9271 or email: ocpe@njaes.rutgers.edu

February 14

Outdoor Entertainment Spaces: Kitchens, Firepits & More, NJAES Cont. Ed., 102 Ryders Lane, New Brunswick, NJ; 9-3:30; \$245 by 1/31; \$275 after. Optional **free** hands-on training on March 11, 2011. For info call 732-932-9271 or email: ocpe@njaes.rutgers.edu

February 15

Tree Fruit & Grapes, RCE of Cumberland County, 291 Morton Avenue, Millville, NJ, 9-12 noon, \$20 per person. Pesticide credits: 6 credits for 1A and PP2. For info or to register call Viola Carson 856-451-2800.

February 15

Six Key Elements of Success for the Landscape Contractor, NJAES Cont. Ed., 102 Ryders Lane, New Brunswick, NJ; 9-3:30; \$195 by 2/1; \$225 after. For info call 732-932-9271 or email: ocpe@njaes.rutgers.edu

 February 15

South Jersey Comm. Greenhouse Growers Conf., RCE Gloucester County, 1200 N. Delsea Dr., Clayton, NJ, 9-3:00; \$40, Registration due by 2/14. Walk-in's \$50. For info call 856-307-6450.

February 16

Designing and Installing Segmented Retaining Walls, (Newly revised), NJAES Cont. Ed., 102 Ryders Lane, New Brunswick, NJ; 9-4; \$245 by 2/2; \$275 after. *Optional **free** hands-on training March 11, 2011. For info call 732-932-9271 or email: ocpe@njaes.rutgers.edu

February 16-19

National Farm Machinery Show, Louisville, Ky. For info visit: www.farmmachineryshow.org.

February 17, 24, March 3 and 10

Irrigation Systems: Design and Installation, NJAES Cont. Ed., 201 Ryders Lane, New Brunswick, NJ; 9-4:00; \$695 by 2/3; \$745 after. For info call 732-932-9271 or email: ocpe@njaes.rutgers.edu

 February 22

Sustainable Tree Fruit Production in Southern NJ, Gloucester County Gov. Building A, 1002 N. Delsea Dr., Clayton, NJ. For info call Jerry Frecon 856-307-6450 x1 or visit: <http://gloucester.njaes.rutgers.edu>

February 23

Water Gardens, NJAES Cont. Ed., 102 Ryders Lane, New Brunswick, NJ; 9-3:30; \$245 by 2/9; \$275 after. For info call 732-932-9271 or email: ocpe@njaes.rutgers.edu

 February 23

Blueberry Open House, Kerri Brook Caterers, 755 S. White Horse Pike, Hammonton, NJ. For info call Dr. Gary Pavlis 609-625-0056

February 24-26

MOSES Organic Farming Conf., La Crosse, Wis. For info call 715-778-5775 or visit: www.mosesorganic.org

February 24-26

New York Farm Show, Syracuse. For info visit: www.newyorkfarmshow.com

February 24

Pesticide Safety, RCE Burlington County, 2 Academy Dr., Westampton, NJ; 9 am-12 noon; \$20. Pesticide credits: 6-CORE. For info call 609-265-5050.

February 25

Irrigation Systems: Repair and Maintenance, NJAES Cont. Ed., 102 Ryders Lane, New Brunswick, NJ; 9:00-4:00; \$245 by 2/11; \$275 after. For info call 732-932-9271 or email: ocpe@njaes.rutgers.edu

 February 26-March 5

International Fruit Tree Assoc. Annual Conf., Red Lion Hotel, Pasco, Washington. For info visit: www.ifruittree.org.

February 28

Sustainable Landscape Design, NJAES Cont. Ed., 102 Ryders Lane, New Brunswick, NJ; 9-3:30; \$195 by 2/14; \$225 after. Credits: 3-3A, 6B, 8C & PP2. For info call 732-932-9271 or email: ocpe@njaes.rutgers.edu

March 2011**March 1**

Fence Selection, Installation & Maintenance, NJAES Cont. Ed., 102 Ryders Lane, New Brunswick, NJ; 9-3:30; \$245 by 2/15; \$275 after. For info call 732-932-9271 or email: ocpe@njaes.rutgers.edu

March 1

Basic Entomology, RCE of Cumberland County, 291 Morton Ave., Millville, NJ. 9-12; \$20.00 per person. Pesticide credits: 3-7A and 7B. For info or to register call Viola Carson 856-451-2800 x4.

March 1-2

Eau Claire Farm Show, Eau Claire. For info visit: www.northcountryenterprises.com

March 1-3

Hawkeye Farm Show, Cedar Falls. For info visit: www.farmshowsusa.com

March 2

Homelawns: Insects, Disease & Weed Mgt, RCE Gloucester County, 1200 N. Delsea Dr., Clayton, NJ; 8:45-12; \$20. Pesticide credits: 6-3B and PP2. For info call Mary Cummings 856-307-6450 x1.

March 4

Two-Cycle Engine Maintenance, NJAES Cont. Ed., 102 Ryders Lane, New Brunswick, NJ; 9-3:30; \$275 by 2/18; \$295 after. For info call 732-932-9271 or email: ocpe@njaes.rutgers.edu

March 4

Irrigation Systems: Scheduling, NJAES Cont. Ed., 102 Ryders Lane, New Brunswick, NJ; 9:00-3:30; \$245 by 2/18; \$275 after. For info call 732-932-9271 or email: ocpe@njaes.rutgers.edu

March 6-8

California Small Farm Conference, San Jose, Calif. For info visit: www.californiafarmconference.com

 March 7

North Jersey Fruit Meeting, Location to be announced. For info call Win Cowgill 908-788-1339

March 7

Introduction to Pruning Techniques, NJAES Cont. Ed., 102 Ryders Lane, New Brunswick, NJ; 9-12; \$195 by 2/21; \$225 after. For info call 732-932-9271 or email: ocpe@njaes.rutgers.edu

March 7-10

2011 Florida Postharvest Horticulture Tour, University of Florida, Gainesville, FL. For info contact Adrian Berry 352-273-4802 or email: adberry@ufl.edu or visit: floridapostharvest.eventbrite.com

March 8-9

Michigan Farmers Market Association Farmers Market Manager Certificate Program, Kellogg Hotel and Conference Center, Lansing, MI. For info visit: www.mifma.org

 March 8-9

Greenhouse Tomato Short Course, Eagle Ridge Conference Center, Raymond, Miss. For info call Rick Snyder 601-892-3731, email: rick.snyder@msstate.edu or visit: greenhousetomatosc.com

March 9

Wildlife Problems in the Landscape, Composting/Diagnostic Training, RCE Gloucester County, 1200 N. Delsea Dr., Clayton, NJ; 8:45 am-12; \$20. Credits: 2-7A. For info call Mary Cummings 856-307-6450 x1.

March 9-10

Triumph of Agriculture Expo-Farm & Ranch Machinery Show, Omaha, NE. For information visit: www.omahafarmandranch.com

March 10

Integrated Pest Management, RCE Burlington County, 2 Academy Dr., Westampton, NJ; 9-12; \$20. Pesticide credits: 6-CORE. For info call 609-265-5050.

March 11-12

United States Potato Board Annual Meeting, The Broadmoor Hotel, Colorado Springs, Colorado. For more info contact Robin Vest by email: rvest@uspotatoes.com

 March 12

Grape Expectations, Forsgate Country Club, 375 Forsgate Dr., Monroe Twp., NJ. For info call Gary Pavlis 609-625-0056

March 15

Earthwise Lawn Care, RCE Burlington County, 2 Academy Dr., Westampton, NJ; 9-12; \$20. Credits: 6-3B & PP2. For info call 609-265-5050.

March 16

Gardening Naturally, RCE Gloucester County, 1200 N. Delsea Dr., Clayton, NJ; 8:45 am-12 noon; \$20. Pesticide credits: 2-3A and PP2. For info call Mary Cummings 856-307-6450 x1.

March 17

Advanced Pruning Techniques, NJAES Cont. Ed., 102 Ryders Lane, New Brunswick, NJ; 9:00-3:30; \$245 by 3/3; \$275 after. For info call 732-932-9271 or email: ocpe@njaes.rutgers.edu

March 17-19

North American Farm & Power Show, Owatonna, Minn. For info visit: www.tradexpos.com

 March 19

35th Annual Gardeners School, NJAES Cont. Ed., 102 Ryders Lane, New Brunswick, NJ; \$55 by 3/5; \$69 after. To register call 732-932-9271 or visit: www.cpe.rutgers.edu

March 23

Vegetable Gardening, RCE Gloucester County, 1200 N. Delsea Dr., Clayton, NJ; 8:45 am-12 noon; \$20. Pesticide credits: 2-PP2. For info call Mary Cummings 856-307-6450 x1.

 March 24

Houseplants, RCE Burlington County, 2 Academy Dr., Westampton, NJ. 9-noon; \$20. Credits: 4-3C. For info call 609-265-5050.

 March 24

Twilight Blueberry Growers Meeting, Variety Farms, 548 Pleasant Mills Rd., Hammonton, NJ. For info call Gary Pavlis 609-625-0056

 March 26

Rain Barrel Workshops, Rutgers Cooperative Ext. Cumberland County, 291 Morton Ave., Millville. \$35 registration includes instruction & materials for 1 rain barrel. Pre-registration/payment is required. Call Viola Carson, 856-451-2800, x4 to register.

March 29-31

Wisconsin Public Service Farm Show, Oshkosh. For more information visit: www.wisconsinpublicservice.com/farm/show.asp

 March 29

Eastern Wineries Unlimited Trade Show and Conf., Greater Richmond Conv. Ctr, Richmond, VA. For info visit: <http://www.wineriesunlimited.com>

March 30

Weed Identification & Control, RCE Gloucester County, 1200 N. Delsea Dr., Clayton, NJ; 8:45 am – 12noon; \$20. Pesticide credits: 3-3A, 3B and PP2. For info call Mary Cummings 856-307-6450 x1.

April 2011**April 5**

Pesticide Safety, RCE of Cumberland County, 291 Morton Ave., Millville, NJ; 9:00 a.m.-12 noon; \$20 per person. Pesticide credits: 6-CORE. For info or to register call Viola Carson 856-451-2800 x4.

📅 April 5

Southern NJ Evening Fruit Meeting I, RCE Gloucester County, 1200 N. Delsea Dr., Clayton, NJ. For info call Jerry Frecon 856-307-6450 x1.

📅 April 5

Annual Meeting of the NJ Peach Council, RCE Gloucester County, 1200 N. Delsea Dr., Clayton, NJ. For info call Milton "Bud" Reuter 856-589-4390.

April 6

Insects & Mites of Ornamentals, RCE Gloucester County, 1200 N. Delsea Dr., Clayton, NJ; 8:45-12; \$20. Credits: 6-3A & PP2; for info call Mary Cummings 856-307-6450 x1 or email: cummings@njaes.rutgers.edu

April 7-9

International Watermelon Conference, The Eden Roc Renaissance Resort & Spa, Miami Beach, Fla. For info visit: www.internationalwatermelon.com

📅 April 9

Wine Grape Symposium, Clifford E and Melba C Snyder Research & Ext. Farm, 140 Locust Grove Rd., Pittstown, NJ. For info visit: <http://www.outercoastalplain.com/>

📅 April 12

Vegetable Pathology, RCE Burlington County, 2 Academy Dr., Westampton, NJ. 9-noon; \$20. Credits: 6-1A and PP2. For info call 609-265-5050.

📅 April 13

Rain Barrel Workshop, Rutgers Cooperative Ext. Cumberland County, 291 Morton Ave., Millville. \$35 registration includes instruction & materials for 1 rain barrel. Pre-registration/payment is required. Call Viola Carson, 856-451-2800, x4 to register.

April 13

Houseplants, RCE Gloucester County, 1200 N. Delsea Dr., Clayton, NJ; 8:45-12; \$20. Credits: 6-3C. For info call Mary Cummings 856-307-6450 x1 or email: cummings@njaes.rutgers.edu

April 13-15

Agri-Marketing Conference & Trade Show, Kansas City, Mo. For info visit: www.nama.org/amc.

📅 April 20

Pruning Trees and Shrubs, RCE Gloucester County, 1200 N. Delsea Dr., Clayton, NJ. 8:45-noon; \$20. For info call Mary Cummings 856-307-6450 x1 or email: cummings@njaes.rutgers.edu

April 23-24

19th Annual Washington County Farm & Fiber Tour, Washington County, Salem, NY. For information visit: www.washingtoncountyfibertour.org

📅 April 26

Southern NJ Evening Fruit Meeting II, RCE Gloucester County, 1200 N. Delsea Dr., Clayton, NJ. For info call Jerry Frecon 856-307-6450 x1.

April 27

Pesticides Safety & Use, RCE Gloucester County, 1200 N. Delsea Dr., Clayton, NJ. 8:45-noon; \$20. Credits: 6-CORE. For info call Mary Cummings 856-307-6450 x1 or email: cummings@njaes.rutgers.edu

April 28

Twilight Blueberry Growers Meeting, Atlantic Blueberry Company, 7201 Weymouth Rd. #A, Hammonton, NJ. For info call Gary Pavlis 609-625-0056.

May 2011**May 3**

Weed Management, RCE Cumberland County, 291 Morton Ave., Rosenhayn, NJ, 9-noon; \$20. Credits: 6-3A & PP2. For info call Viola Carson 856-451-2800 x4.

May 4

Stormwater Management in Your Backyard, RCE Gloucester County, 1200 N. Delsea Dr., Clayton, NJ. 8:45-noon; \$20. For info call Mary Cummings 856-307-6450 x1 or email: cummings@njaes.rutgers.edu

May 11

Plant Pathology, RCE Gloucester County, 1200 N. Delsea Dr., Clayton, NJ. 8:45-noon; \$20. Credits: 6-3A and PP2. For info call Mary Cummings 856-307-6450 x1 or email: cummings@njaes.rutgers.edu

May 16 - 18

Bee-ginner's Beekeeping, For more information or to register call 732-932-9271 or visit: www.cpe.rutgers.edu/bees

May 18

Tree & Small Fruit Production, RCE Gloucester County, 1200 N. Delsea Dr., Clayton, NJ, 8:45-noon; \$20. Credits: 3-3A & PP2. For info call Mary Cummings 856-307-6450 x1 or email: cummings@njaes.rutgers.edu

May 24

Twilight Blueberry Growers Meeting, Philip E. Marucci Center for Blueberry and Cranberry Research and Ext., 12a Lake Oswego Chatsworth, NJ. For info call Gary Pavlis 609-625-0056

May 31

Twilight Wine Grape Growers Meeting, Site to be determined in Southern NJ. For info call Jerry Frecon 856-307-6450 or Gary Pavlis 609-625-0056.

June 2011**June 1**

Twilight Wine Grape Growers Meeting, Site to be determined in Northern NJ. For info call Win Cowgill 908-788-1339 or Gary Pavlis 609-625-0056.

June 7

Turf Pest Problems, RCE Cumberland County, 291 Morton Ave., Rosenhayn, NJ, 9-noon; \$20. Credits: 6-3B & PP2. For info call Viola Carson 856-451-2800 x4. Pre-registration required.

June 16

Twilight Cranberry Growers Meeting, Site to be determined. For info call Ray Samulis 609-265-5050.

REGULARLY SCHEDULED MEETINGS

✓ Indicates meeting will be held at RCE of Cumberland County

✓ Pesticide Certification Exam Schedule—Cumberland County 291 Morton Avenue Millville, NJ 08332 (Between Rosenhayn & Carmel) <u>2011</u> <table> <tr> <td>Feb 16</td> <td>Mar 2</td> <td>Apr 13</td> </tr> <tr> <td>May 4</td> <td>Jun 2</td> <td>Sep 2</td> </tr> <tr> <td>Oct 28</td> <td>Nov 9</td> <td>Dec 14</td> </tr> </table> To Register call 609-984-6614 For directions call 856-451-2800 *****	Feb 16	Mar 2	Apr 13	May 4	Jun 2	Sep 2	Oct 28	Nov 9	Dec 14	✓ Cumberland County Agriculture Development Board 291 Morton Avenue Millville, NJ 08332 (Between Rosenhayn & Carmel) <u>2011</u> <table> <tr> <td>Feb 9</td> <td>Mar 9</td> <td>Apr 13</td> </tr> <tr> <td>May 11</td> <td>Jun 8</td> <td>Jul 13</td> </tr> <tr> <td>Aug 10</td> <td>Sep 14</td> <td>Oct 12</td> </tr> <tr> <td>Nov 9</td> <td>Dec 14</td> <td></td> </tr> </table> Meetings start at 7 p.m. Call DeAnn at 856-453-2211 *****	Feb 9	Mar 9	Apr 13	May 11	Jun 8	Jul 13	Aug 10	Sep 14	Oct 12	Nov 9	Dec 14		✓ Cumberland County Board Of Agriculture 291 Morton Avenue Millville, NJ 08332 (Between Rosenhayn & Carmel) 7 pm meetings <u>2011</u> <table> <tr> <td>Feb 24</td> <td>Mar 17</td> <td>Apr 21</td> </tr> <tr> <td>May 19</td> <td>Sep 15</td> <td>Oct 20</td> </tr> <tr> <td>Nov 17</td> <td>Dec 15</td> <td></td> </tr> </table> For info email Jim Laning, Vice- President jklaning@verizon.net *****	Feb 24	Mar 17	Apr 21	May 19	Sep 15	Oct 20	Nov 17	Dec 15	
Feb 16	Mar 2	Apr 13																														
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Oct 28	Nov 9	Dec 14																														
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Feb 24	Mar 17	Apr 21																														
May 19	Sep 15	Oct 20																														
Nov 17	Dec 15																															

Cumberland County Improvement Authority (CCIA)

Pesticide Container Recycling

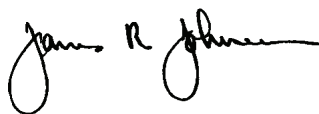
Cumberland County Solid Waste Complex

169 Jesse's Bridge Rd. (located off Route 55 Exit 29)

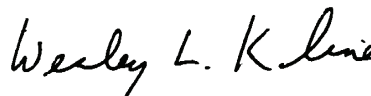
Deerfield Township, New Jersey

2011 collection schedule published when available

Sincerely,



James R. Johnson
Agricultural Agent
Nursery Management Commercial
Internet: jjohnson@njaes.rutgers.edu



Wesley L. Kline, Ph.D.
Agricultural Agent
Vegetable & Herb Production
Internet: wkline@njaes.rutgers.edu

Pesticide User Responsibility: Use pesticides safely and follow instructions on labels. The user is responsible for the proper use of pesticides, residues on crops, storage and disposal, as well as damages caused by drift.

Use of Trade Names: Trade names are used in this publication with the understanding that no discrimination is intended and no endorsement is implied. In some instances the compound may be sold under different trade names, which may vary as to label.

Missing an article, a date or a whole newsletter?
Check out past issues of "Cultivating Cumberland" by
visiting <http://Cumberland.njaes.rutgers.edu/>
and keep up with all the past and up-to-date news!

Reminder: It is time to update your Cultivating Cumberland mailing information. Your form only needs to be returned if you wish to be removed from the mailing list or have any changes in your information. The updated information will be used beginning February 25, 2011.

Please consider receiving your newsletter via email. If you wish to change your status to email, be sure to check off your email choice and update your email address. If you have any questions, please call Tammy at 856-451-2800 x1.

NONPROFIT ORGANIZATION
U.S. POSTAGE PAID
VINELAND, NJ
PERMIT NO. 186

Cooperative Extension of Cumberland County
Extension Education Center
291 Morton Avenue
Millville, NJ 08332-9791

RUTGERS
New Jersey Agricultural
Experiment Station

PLEASE FILL OUT SECTIONS BELOW:

1 I'd like to receive the newsletter starting early Spring 2011:
 _____ by mail _____ by e-mail (same day)

2 CHECK WHICH EDITION(S) : mail e-mail
 _____ Landscape, Nursery & Turf (16 issues) . . . \$32 \$20
 _____ Vegetable Crops (29 issues) \$58 \$36
 _____ Fruit (33 issues) \$66 \$40
 _____ Cranberry (10 issues) \$20 \$13

TOTAL ENCLOSED \$ _____

3 BUSINESS NAME _____

TO WHOSE ATTENTION _____ FIRST NAME _____ LAST NAME _____

ADDRESS _____

CITY, STATE, ZIP _____

BILLING ADDRESS (IF DIFFERENT FROM ABOVE) _____

COUNTY _____ PHONE () _____

E-MAIL ADDRESS _____ PLEASE PRINT CLEARLY
 (FOR E-MAIL SUBSCRIPTIONS)

4 PAYMENT - CREDIT CARD

NAME ON CARD _____

TYPE OF CARD: MASTER CARD VISA DISCOVER

CREDIT CARD # _____

EXP. DATE _____ 3 DIGIT SECURITY CODE _____ (ON BACK OF CARD)

SIGNATURE _____

PAYMENT - CHECK
 PAYABLE TO: RUTGERS, THE STATE UNIVERSITY OF NJ

5 MAIL PAYMENT TO:
 Rutgers Snyder Research & Extension Farm
 Plant & Pest Advisory
 140 Locust Grove Road
 Pittsford, NJ 08867

FOR OFFICE USE

PLANT & PEST ADVISORY

Seasonal management newsletter for

New Jersey's vegetable, fruit, cranberry

RUTGERS

New Jersey Agricultural
Experiment Station

and turf and ornamentals industries

FRUIT EDITION



"The newsletter is very informative with excellent diagnostic advice and control measures."

"The advice I get directly from the fruit agents and specialists is valuable beyond measure. It's tough to give an actual \$ value to these services as I would have gone out of business long ago, without them."

"I could not do a good job without the newsletter, twilight meeting, agents and IPM weekly newsletter ranks right there at the top!!! Without all these fine services we would be a real mess."

Get the timely local information you need:

- Insects
- Disease
- IPM
- Weather
- Food Safety
- Cultural practices
- Meetings

CRANBERRY EDITION



"Informative, timely and to the point."

"I find the Pest Advisory a very useful tool to my business. My time is very limited, so I try to make the best use of it. Rutgers has a lot of resources available and I try to use them when I can."

"I enjoy getting the newsletter by e-mail. It's just so much convenience."

"This publication is very important connection to the scientific data that I use as a farmer in making decisions."

VEGETABLE CROPS EDITION



"The P&PA Newsletter is extremely valuable in helping me keep up with spray programs and what to watch out for."

"The Plant Pest Advisory publications are an excellent resource for my farm management practices."

"Plant and Pest Advisory is very useful to us. As the season goes through many weather changes, it is nice to get these updates of insect and disease activities. We usually are experiencing exactly what is in the advisory."

LANDSCAPE, NURSERY & TURF EDITION



"Letter alerts me to problems about to be brought to garden center by customers. Diagnosing pest/disease problems is easier with this "heads up" info."

"All items in newsletters help me with the landscape/greenhouse job in the township. Help me cut back pesticide use and I have healthy plant material."

"Great turf articles that I show my customers as back up to what I tell them."

"The Plant diagnostic lab reports help me keep up with what disease to look for."

Visit web page: <http://njaes.rutgers.edu/pubs/plantandpestadvis>

Wednesday, February 9 *(continued)*

- 1:45 Listening Session on
Farmland Preservation &
Right to Farm



2:30 Voting Session

- *Resolutions #23 - #25*

3:00 Elections

- State Board of Agriculture
- Fish & Game Council

**The New Jersey State Board
of Agriculture:**

W. Scott Ellis, President
Ann M. Dorsett, Vice President
Andrew Borisuk, Jr.
Henry D. DuBois, Jr.
Lewis DeEugenio, Jr.
James Giamarese
Roger Kumpel
Hugh McKittrick

The State Agricultural Convention is
presented by the:



For additional information regarding the
convention, please contact Joni Elliott
at 609-984-2520 or via e-mail at
joan.elliott@ag.state.nj.us.

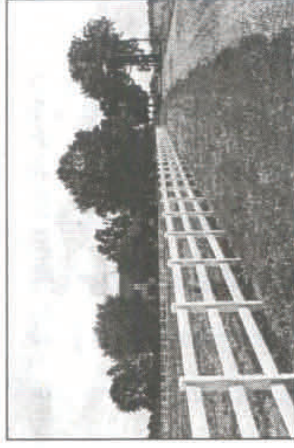
PRELIMINARY AGENDA

2011

**NEW JERSEY
STATE AGRICULTURAL
CONVENTION**

February 8 & 9

Crowne Plaza Cherry Hill



WE WANT TO HEAR FROM YOU

in
"Listening Sessions"

- ♦ Product Traceability ♦
- ♦ Farm Labor ♦
- ♦ Farm Regulations &
Common Sense ♦
- ♦ Farmland Preservation
& Right to Farm ♦

Tuesday, February 8

10:00 Open Convention

- President's Welcome
- Flag Salute
- Invocation
- President's Remarks
- Introduction of State Board of Agriculture

10:20 State of the State of Agriculture

*Honorable Douglas H. Fisher
Secretary of Agriculture*

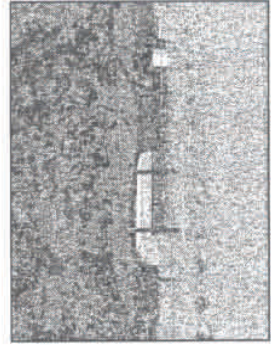
10:35 Convention Business Session

- Roll Call of Delegates
- Description of Consent Calendar

10:40 Listening Session on Product Traceability

*Dan Vache, Vice President
Supply Chain Management
United Fresh Produce Association*

11:00 Listening Session on Farm Labor



11:45 Voting Session

- Resolutions #1 - #4

12:30 New Jersey Agricultural Society Luncheon

**2:00 Remarks by Robert M. Goodman,
Executive Dean**
Rutgers School of Environmental &
Biological Sciences

Dr. Larry Katz, Director
Rutgers Cooperative Extension

2:30 Voting Session

- Resolutions #5 - #10

3:45 Youth Speaker – NJ FFA

Eric Nelson, President

4:00 Award Presentations

- Patrick Mullen Quality Grading
- Neil Robson Farmers Fighting Hunger
- FFA Honorary Degree
- Seafood Award

4:20 Committee Meetings

- Nominations Committee
- Resolutions Committee

6:00 Youth Reception

7:00 Delegates' Dinner

Wednesday, February 9

8:15 Meeting regarding the Future of the Equine Industry

9:30 Convention Session

- Call to Order
- Invocation
- Introduction of State Board of Agriculture

10:35 Listening Session on Farm Regulations & Common Sense



11:15 Voting Session

- Resolutions #11 - #15
- Vote on Consent Calendar
Resolutions #16 - #22

12:00 Farm Credit East Luncheon

1:30 Youth Speaker - 4H

Why Choose

Annie's Project?

Annie was a woman just like you- she spent her lifetime learning how to be an involved business partner with her farm husband. Together they did great things, but it wasn't easy. This is Annie's Project - to take her experiences and share it with farm women living and working in a complex business.

You, along with your classmates will learn in-depth knowledge on:

- Marketing and Pricing
- Production Risk
- Financial Management
- Human & Personal Risk
- Legal Risk

You will also complete a full business plan during the course.

Annie's Project NJ is sponsored by the following agencies...



United States
Department of
Agriculture

National Institute
of Food and
Agriculture



Farm Business Management Course For Women

"Annie's Project"

to empower farm women to be better business partners through networks and by managing and organizing critical information.

Two Locations

Cape May Court House, NJ

Hackettstown, NJ

6 pm - 9 pm

(6 weeks)

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Experiment Station

Registration is \$50.00 per person. (Provides materials, break refreshments and instructors.)
 Deadline: Tuesday, February 8, 2011 ~ Checks payable to: "Annie's Project NJ"

~ Mail registration and payment to ~:

Cape May County Course:

Jenny Carleo-RCE, 4 Moore Rd. DN-703
 CMCH, NJ 08210

Hackettstown Course:

129 Morris Turnpike
 Newton, NJ 07860

Course Topics

The course will be held in 6 sessions.
 The topics included are:

- . Management Styles
- . Developing a Mission/Vision Statement
- . Basic Marketing – Marketing Plan
- . Social Media – Websites, Blogs, Facebook, Twitter, YouTube, Texting, etc.
- . Free Advertising – Community Calendars & How to Write a Media Release
- . Promoting Local Support
- . Product pricing
- . Crop Insurance
- . Farm Loans, NAP & other FSA programs
- . Production Record Keeping
- . Livestock/Food Industry, Food Safety
- . Farm Transfer and Estate Planning
- . Business Planning
- . Understanding Farm Insurance Policies
- . Women and Money – Family Finances, Credit Report, Household Budget - How does your Money Flow?
- . Financial Documents
- . Labor Management Basics
- . How to get and keep good employees
- . Role Playing on Labor Issues
- . Life, Health, Disability, & Farm Insurance
- . Part-time Employee Risk Management/... And more!

Important Details

Classes (6) will be held in Hackettstown, NJ starting Tuesday, February 22, 2011 and Cape May Court House, NJ beginning Thursday February 10, 2011. All classes are 6-9 pm. Contact your local Agricultural Extension Agent for more details: <http://njaes.rutgers.edu/county/>

Or call the following numbers depending on your location:

Steve Komar: 973-948-3040

Bob Mickel: 908-788-1338

Jenny Carleo: 609-465-5115

Cooperating Agencies: Rutgers, The State University of New Jersey, U.S. Department of Agriculture, and County Boards of Chosen Freeholders. Rutgers Cooperative Extension, a unit of the Rutgers New Jersey Agricultural Experiment Station, is an equal opportunity program provider and employer.



Rain Barrel Workshops



*Rain barrels are a great way
to capture and recycle rain
water for gardening.*



Cumberland
COUNTY
IMPROVEMENT
Authority

RUTGERS

New Jersey Agricultural
Experiment Station



Saturday, March 26, 2011

2:00–5:00 pm

&

Wednesday, April 13, 2011

6:00–9:00 pm

Join CCIA and partners for one of these hands-on workshops designed to educate participants on the benefits of rainwater harvesting. **Workshop participants will build a rain barrel to take home!**

Workshops will be held at Rutgers
Cooperative Extension of Cumberland
County, Education Center
291 Morton Avenue,
Millville, NJ 08332

To register call Viola at
Rutgers Cooperative Extension,
phone: (856) 451-2800 ext. 4

A \$35 registration fee includes instruction and materials for building one rain barrel.

Checks should be made payable to
Extension Services Program Account.

Sponsors:

Cumberland County Improvement Authority
Rutgers Cooperative Extension Water
Resources Program
Rutgers Cousteau Center at Bridgeton
Rutgers Cooperative Extension Master
Gardeners Program
AmeriCorps NJ Watershed Ambassador

Why you should attend:

This half-day workshop will give you the most up-to-date information on vegetable crops and current recommended controls for bacterial diseases of tomato and pepper.

Topics of interest:

- Cultural and chemical control measures for bacterial diseases of tomato and pepper.

- Outlook for the

Brown Marmorated

Stink Bug

- Future of Food

Safety

- Pesticide Safety

Details:

Monday, February 7, 2011

Rutgers Coop. Ext. of Cumberland County

291 Morton Ave, Millville, NJ 08332

Friday, February 11, 2011

Rutgers Coop. Ext. of Gloucester Co.

1200 N. Delsea Dr., Bldg A, Clayton, NJ

Please pre-register and indicate if bringing seed to have treated.

COST: \$25.00 FARM (LIMIT 2 PERSONS)



Directions

Rutgers Coop. Ext. of Cumberland County

291 Morton Ave, Millville, NJ 08332

1. Turnpike South to Exit 2.
2. Turn right onto Route 322 toward Mullica Hill.
3. At the light turn right onto Rt. 45.
4. Bear left at south end of town onto Route 77 South.
5. Follow Route 77 South for about 20 miles.
6. Go through traffic circle.
7. At 2nd light after traffic circle (town of Deerfield) make a left.
8. At end of road make a right onto Centerton Road.
9. Take the first left onto Morton Avenue.
10. Continue south on Morton Avenue through 2 stop signs and through the traffic light on Landis Avenue.
11. The office is located on the right side of Morton Avenue about 1.5 miles past the Landis Avenue intersection.

Rutgers Coop. Ext. of Gloucester Co.

1200 N. Delsea Dr., Bldg A, Clayton, NJ

From the North:

1. Take Interstate 295 South to the Atlantic City Expressway East for about 0.5 mi., bear right to Rt. 55 towards Glassboro.
2. Rt. 55 South to Exit 50A (Rte 322 East).
3. Go 5 lights and turn Right onto Rt. 47 South (Delsea Drive).
4. On Rt. 47 travel approximately 2.5 mi., Gloucester County Office Complex is on the right.
5. Office of Government Services Building is the first building on the left, park in front of building.

From the East:

1. Harding Highway / Rt. 40 West becomes Rt. 47 South (Delsea Drive).
2. On Rt. 47 travel approximately 2.5 miles, Gloucester County Office Complex is on the right.
3. Office of Government Services Building is the first building on the left, park in front of building.

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New Jersey Agricultural
Experiment Station

SOUTH JERSEY

Pepper and Tomato Hot Water Seed Treatment and Vegetable Crops Update Workshops

Monday, Feb. 7, 2011
Cumberland County

Friday, Feb. 11, 2011
Gloucester County

An educational and instructional workshop on treating seed with hot water to reduce diseases. Growers can bring seed to have treated and learn about vegetable crop updates. Please Pre-Register by calling 856-307-6450 ext. 1 Cost: \$25.00



Tel: (856) 307-6450 ext

Registration Form

Please Send in with Payment

Check off day and location you want to attend:

____ Mon., Feb. 7th—Cumberland County

____ Fri., Feb 11th—Gloucester County

Name(s) _____

email _____

Address _____

Phone _____

of persons: _____ (\$25.00 PER FARM)

REPRESENTED, NO MORE THAN 2 PERSONS PER FARM)

Bringing seed to hot water treat: (circle)

yes

no

Return with RSVP, by February 4th, MAIL TO:
Hot Water and Disease Workshop
Rutgers Coop. Ext. of Gloucester Co.
County Government Services Building
1200 N. Delsea Dr., Bldg A
Clayton, NJ 08312-1095

Make checks payable to: GCBA

Or Fax: 856-307-6476 This Form
You can also call to Register Contact:
Michelle Casella at 856-307-6450 ext. 1

Cooperating Agencies: Rutgers, The State University of New Jersey, U.S. Department of Agriculture, and County Boards of Chosen Freeholders. Rutgers Cooperative Extension, a unit of the Rutgers Jersey Agricultural Experiment Station, is an equal opportunity program for and employer.

Program Schedule

9:00 AM	Registration
9:15AM	Overview of Hot Water Seed Treatment <i>Kris Holmstrom, Vegetable IPM, Research Project Coordinator</i>
9:45 AM	Overview of Bacterial Diseases of Tomato and Pepper and Their Control <i>Dr. Andy Wyenandt, Rutgers NJAES Vegetable Pathologist</i>
10:45 AM	Planning for the Brown Marmorated Stink Bug in 2011 <i>Kris Holmstrom, Vegetable IPM, Research Project Coordinator</i>
11:15 AM	Future Food Safety Changes <i>Dr. Wes Kline, Agricultural Agent, Cumberland Co.</i>
11:45 AM	Safe Application of Pesticides <i>Michelle Casella, Agricultural Agent, Gloucester Co.</i>
12:15 PM	Pesticide Credits and Lunch

*We will try to accommodate all who bring seed to treat on the day of the seminars. However, this will be done on a first come first serve basis in order of paid registrations received in our office. If we do not have time to treat your seed on that day, we can make appointments on other dates to do so. Regardless of when you registered, if you are bringing hot pepper seed that will be done last that day, since it can cause irritants.

IF YOU ARE BRINGING SEED TO HAVE HOT WATER TREATED, YOU MUST CALL TO GET INSTRUCTIONS ON HOW TO PREPARE YOUR SEED FOR TREATMENT. NO PELLETTED OR CLAY COATED SEED CAN BE USED. FUNGICIDE TREATED SEED CAN BE DONE.

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Conference Summary

Update on What We are Doing at

Lucas Greenhouses

George Lucas, Lucas Greenhouses

Dos and Don'ts of Weed Control in the Greenhouse

Michelle Casella, Agricultural Agent

Variety Observations and

Recommendations From The

Rutgers Poinsettia Trials

George Wulster, Rutgers University

Western Flower Thrips & Impatiens

Necrotic Spot

Steven Rettke, RCE of Camden Co.

The Top 20 Annual Flowers and Top Plants for Container Production

Alan Michael, Penn State Extension

How to Control Risk in the Nursery

Using Crop Insurance

Laura Gladney, RCE of Salem Co.

Pesticide Safety

Jenny Carleo, Agricultural Agent

Special Greenhouse Requirements in the Worker Protection Standard

Michelle Casella, Agricultural Agent

Directions

From the North

1. Take Interstate 295 South to the AC Expressway East for about 0.5 mi. Bear Right to Rt. 55 Towards Glassboro.
2. Rt. 55 South to exit 50A (Rt. 322 East)
3. Go 5 lights and turn right onto Rt. 47 South (Delsea Dr.)
4. On Rt. 47 drive 2.5 mi. Gloucester County Office Complex is on the Right.
5. Enter first Building on the left and park in front of building.

From the East

1. Take Rt. 40 West and will become Rt. 47 North (Delsea Dr.)
2. When passing through the center of Clayton, continue about 1 mile and the Gloucester County Office Building will be on your left.

From Philadelphia

1. Take the Commodore Barry Bridge into NJ and exit bridge onto Rt. 322 East. Continue on Rt. 322 East into Glassboro.
2. After passing the Rt. 55 bridge on Rt. 322 go 5 lights and turn right onto Rt. 47 South (Delsea Dr.).
3. On Rt. 47 drive 2.5 mi. Gloucester County Office Complex is on the Right.
4. Enter first Building on the left and park in front of building.

RUTGERS

New Jersey Agricultural
Experiment Station

South Jersey Commercial Greenhouse Growers Conference

RUTGERS

New Jersey Agricultural
Experiment Station



Tuesday, February 15,
2011

9:00AM—3:00PM

Rutgers Cooperative Extension
of Gloucester Co., Clayton, NJ
1200 N. Delsea Dr. Bldg A
Clayton, NJ 08312
856-307-6450

REGISTRATION DUE BY

Monday, February 14, 2011 (walk-ins \$50)

Name: _____

Address: _____

Phone: _____

Fax: _____

E-mail: _____

Additional Names of Persons Attending:

1. _____

2. _____

Seminar Fee (includes lunch)

\$40.00 per first person _____

\$10.00 per additional farm member _____

Total Number of Participants = _____

Total Enclosed = _____

Make check payable to: **GCBA**

Return with this sheet to:

Attn: Michelle Casella, RCE Gloucester Co,

1200 N. Delsea Dr., Bldg A

Clayton, NJ 08312

Secondary Heading

You are invited to join us for the 2011 South Jersey Commercial Greenhouse Growers Conference. We will be having a mix of farmer-speakers and Rutgers faculty and staff to bring you the highest quality educational day possible. We will be having lunch and enough time to catch up with other growers and old friends. If you have enjoyed our South Jersey Commercial Greenhouse Growers Conferences in the past why not bring an employee, or a fellow grower who missed it last time? We look forward to seeing you there!

Michelle Casella

Michelle Infante-Casella
Agricultural Agent, Gloucester Co.

Jenny S. Carleo

Jenny S. Carleo
Agricultural Agent, Cape May County

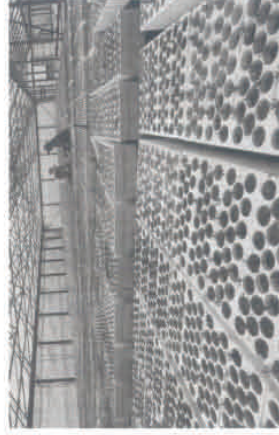
Location and Details

**Tuesday
February 15, 2011**

Location:
**Cooperative Extension of
Gloucester County**
County Government
Services Building
1200 N. Delsea Dr., Bldg. A
Clayton, NJ 08312-1095

Time: 9 AM - 3 PM

Lunch: 12:00



Cooperating Agencies: Rutgers, The State University of New Jersey, U.S. Department of Agriculture, and County Boards of Chosen Freeholders. Rutgers Cooperative Extension, a unit of the Rutgers New Jersey Agricultural Experiment Station, is an equal opportunity program provider and employer.